

NAME

hpgl2gif, hpgl2ppm, hpgl2bmp, hpgl2png, hpgl2tiff, hpgl2pdf, hpgl2cps – convert HPGL plot file to GIF, PPM, BMP, PNG or TIFF image, PDF or colour PostScript file

SYNOPSIS

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hpgl2gif [-p colour,...] [-b colour] [-h height] [-w width] [-G] [-t] [-f[vfont]] [-r] [-m] [-A
| -B | -A3 | -A4] [hpglfile] > giffile
hpgl2ppm [options] [hpglfile] > ppmfile
hpgl2bmp [options] [hpglfile] > bmpfile
hpgl2png [options] [hpglfile] > pngfile
hpgl2tiff [options] [hpglfile] > tifffile
hpgl2pdf [options] [hpglfile] > pdffile
hpgl2cps [options] [hpglfile] > psfile
```

DESCRIPTION

Each of these programs interprets the HPGL instructions stored in the *hpglfile*, or the standard input if no file is specified, and generates output in the appropriate format. The output is on the standard output, which should be redirected to a file.

The programs act as a front end to various filters, mostly in the *emuhpgl(1)* suite and the *netpbm* package, to carry the HPGL through the necessary sequence of conversions to the desired final format. The *emuhpgl(1)* programs emulate only a small subset of the full HPGL, which is adequate for handling output from programs like *analysis(1)* and *layout(1)*.

The output graphics are in an aspect ratio equivalent to what would be produced by an HP plotter on A-size (8.5×11") paper.

Options

-p *colour,...*

Sets colours for various pens, up to 8 in all. Each *colour* can be a name without spaces, as in the file */usr/neuro/lib/rgb.txt*, or hexadecimal values as #FFAA99. The default is to use the colours specified in the **SCRPENS** environment variable. You can also use **-p bw** or **-p wb** for a faster rendering of a simple black on white or white on black bitmap image.

-b *colour*

Sets the image background colour (default is white).

-h *height*

Sets the image height in pixels (default is 400).

-w *width*

Sets the image width in pixels (default is 520). If only one of **-h** or **-w** is given, the other is set proportionally. For the *hpgl2pdf* and *hpgl2cps* commands, the height and width are specified in decipoints, rather than pixels, and the default size is 7920×6120, which corresponds to a US A-size sheet of letter paper in landscape orientation. You can use **-w 8420 -h 5950** for A4 landscape.

-G Causes a cleaner, but slower rendering, using the GhostScript (*gs(1)*) PostScript emulator. This also causes lines to be rendered somewhat thicker than the default width of a single pixel. The *hpgl2pdf* and *hpgl2cps* commands ignore this option, as the former always uses *gs(1)* to render the PDF, and the latter doesn't render the PostScript. *hpgl2cps* produces a tweaked version of the output of *hpgl2psc*, in which the pens select colours rather than simple shades of gray.

--help

Causes the program to output a summary of command usage and options.

Emuhpgl Options

The following options will be passed directly to the initial HPGL conversion program, which is *hpgl2ras*, *hpgl2xpm* or *hpgl2psc*.

-t Causes text to be suppressed.

-f[*vfont*]

Causes text to be rendered as a series of line segments, using the specified *vfont* to select a variable Hershey font, or by default, a font approximating the default font on HP plotters.

-r Causes the image to be reduced to 72% of its linear size, and rotated so that it appears in portrait orientation on the upper part of a letter sized page. This option only has an effect on the *hpgl2pdf* and *hpgl2cps* commands.

-m Merges together multiple unconnected line segments into a single path, rather than stroking each one separately. This option only has an effect on the *hpgl2cps* command, and possibly on *hpgl2pdf* as well, depending on how GhostScript renders the PS into a PDF.

-A, -B, -A3,

Adjust the coordinate system and aspect ratio to correspond to the plotter's defaults for that page size. The default page size can also be changed by setting the environment variable **HPGLPAGE** to one of the above page sizes. If you use one of these, you will probably also want to adjust the rendered image size using **-h** and **-w** options, to get the right proportions for the chosen page size.

FILES

/usr/neuro/lib/rgb.txt X11 colour database

SEE ALSO

layout(1), analysis(1), emuhpgl(1) (for hpgl2ras, hpgl2xpm and hpgl2psc), ras2xbm(1), xpmtoppm(1), xbmtopbm(1), ppmtogif(1), ppmtobmp(1), pnmtojpg(1), pnmtojpeg(1), pnmtoiff(1), gs(1)